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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,993	04/21/2004	Harold Alexis Huggins	HUGGINS 7	5503
47396 7590 04/25/2007 HITT GAINES, PC		EXAMINER		
LSI Corporation PO BOX 832570 RICHARDSON, TX 75083			LIE, ANGELA M	
			ART UNIT	PAPER NUMBER
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SHORTENED STATUTORY PERIOD OF RESPONSE		NOTIFICATION DATE	DELIVERY MODE	
3 MONTHS		04/25/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

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docket@hittgaines.com

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Exercisions for many be presided under the provided under the provi		Application No.	Applicant(s)				
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. and SIX (9) MONTHS from the mailing date of rise communication of the communication of the communication of the property of the pr	•	1 -					
WHICHEVER, IDNGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 30° RE1 133(a). In a event, however, may a reply be finely filed after SIX (b) MONTHS from the mailing date of this communication of 10° RE1 133(a). In a event, however, may a reply be finely filed after SIX (b) MONTHS from the mailing date of this communication of the state of the	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
1) Responsive to communication(s) filed on <u>06 April 2007.</u> 2a	 WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing 	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
2a) This action is FINAL. 2b)⊠ This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 29 and 34-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 Claim(s) is/are allowed. 6 Claim(s) is/are objected to. 7 Claim(s) is/are objected to. 8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on 21 April 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11 The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of:	Status						
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2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application	a) ☐ All b) ☐ Some * c) ☐ None of:						
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3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
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DETAILED ACTION

The examiner indicated previously that the claim 29 is allowed, however upon the final updated search, the examiner found a prior art that reads on the disclosed limitations.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

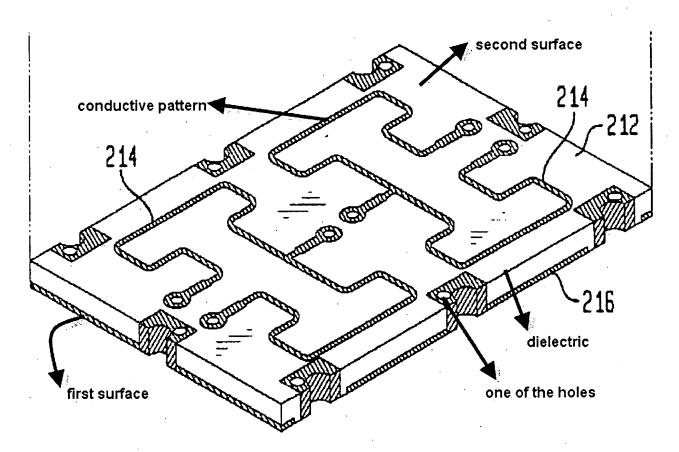
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
- 3. <u>Claims 29, 35-37 and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Sridharan et al (US Patent No. 6525623).</u>

As to claim 29, Sridharan discloses a radio frequency (RF) component comprising: a dielectric layer (Figure 9, element 212) having opposing first (Figure 9,

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bottom side) and second major surface (as indicated in the figure below) being free from a semiconductor substrate, the dielectric layer (Figure 9, element 212) having a plurality of openings (as indicated in the figure below) between the first and second opposing major surfaces; and a patterned conductive (Figure 9, as indicated below) layer on the second major surface of the dielectric layer, wherein the plurality of openings are arranged in a predetermined pattern along laterally opposing sides of the patterned conductive layer (as shown in figure below).



As to claim 35, Sridharan discloses the RF component wherein the plurality of openings are laterally adjacent portions of the patterned conductive layer with no openings extending through the patterned conductive layer (as shown in the figure

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above the holes adjacent to the edges (as indicated in the drawings above) are not extending through the patterned conductive layer.

As to claim 36, Sridharan discloses the RF component wherein each of the plurality of openings is cylindrically shaped (as shown in figure above).

As to claim 37, Srindharan discloses the RF component wherein there is substantially uniform spacing between the adjacent openings on each of the opposing sides of the patterned conductive layer (as shown in the figure above the spacing between holes is uniform).

As to claim 40, Srindharan discloses the RF component wherein the patterned conductive layer does not intervene between the adjacent openings along each of the laterally opposing sides.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. <u>Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over</u>

 <u>Sridharan et al (US Patent No. 6525623) in the view of Fjelstad (US Patent</u>

 <u>4482445).</u> Srindharan teaches all the limitations disclosed in claim 29, however he does not explicitly teach each opening having respective rounded over edges adjacent the first and the second surfaces. Fjelstad teaches dielectric laminate wherein comprising a

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plurality of holes, wherein the edges are smoothly rounded (column 3, lines 54-61). It would have been obvious to one of the ordinary skill in the art during the time the invention was made to have rounded hole edges as taught by Fjelstad, on both side of the dielectric taught by Srinsharan as to diffuse stress normally concentrated at the hole edges and minimizing "corner crack" (column 3, lines 54-60).

Claims 38 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable 6. over Sridharan et al (US Patent No. 6525623) in the view of Jolly et al (US Patent No. 5269880). Sridharan teaches all the limitations disclosed in claims 29 and 37, however he does not explicitly teaches that the diameter of openings is in the range of about 0.5 to 20 um and that the spacing between the adjacent openings on each of the opposing sides ranges from about 20-200um. Jolly teaches openings having a diameter in the range of 1.5 to 2 um (lines 41 and 42). It would have been obvious to one of the ordinary skill in the art during the time the invention was made to have holes with diameter of 2 um as taught by Jolly and have the spacing between the corresponding holes in the range of 20 -200 um, in Sridharan device, because it is an obvious matter of design choice to change the spacing length to about 20 to 200 microns and modify hole diameter to a range of about 0.5 -20 um, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955). Furthermore the other important thing to note is the fact that the spacing between the openings as well as their diameter do not change the functionality of the device.

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Inquiry

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela M. Lie whose telephone number is 571-272-8445. The examiner can normally be reached on M-F.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Angela M Lie

DON WONG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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